***Munida casadioi* (Schweitzer & Feldmann, 2000) from the Eocene of the Bariloche area, Patagonia (Argentina)**

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Abstract

New material forces a reconsideration of *Austromunida casadioi* Schweitzer & Feldmann, 2000. Originally the type species of a new genus, we find that this is only a species of the genus *Munida* Leach, 1820.

Introduction

Schweitzer & Feldmann (2000) erected the new genus *Austromunida* (type species: *A. casadioi*) on the basis of three more or less complete specimens (holotype: GHUNLPam 16832; paratypes: GHUNLPam 16833, 16834; Geological Museum, Universidad nacional de La Plata) from the middle Eocene Centinela Formation on Estancia 25 de Mayo, Calafate, Santa Cruz (Argentina). Although the authors did note the superficial similarity to *Munida* Leach, 1820, they justified the erection of the new genus on features not present in all other known fossil galatheids, e.g., the narrow, needle-like rostrum, transverse ridges and numerous lateral spines.

However, the recent discovery of a rich assemblage of galatheids in the Bariloche area (Dipartimento di Paleontologia degli Invertebrati, Museo civico di Storia naturale di Milano, work in progress), casts doubts over the validity of the genus *Austromunida*. Some of these specimens show the needle-like rostrum, identical to the ones seen in material from Calafate, and as a consequence this feature might be used to refer these specimens to *Austromunida*. However, two individuals have well-developed supraorbital spines. These are not present in *A. casadioi*, but this may be a preservational

matter: the frontal region of the carapace is poorly preserved, which might give the impression of their absence (see also Schweitzer & Feldmann, 2000, fig. 4).

Austromunida

A new study of casts of holotype and paratypes of *A. casadioi* (Geology Department, Kent State University, Kent, Ohio) has now revealed the presence of small epigastric spines, not shown in fig. 4 of Schweitzer & Feldmann (2000), and has shown that the arrangement of transverse ridges is different from that shown in the same illustration. In most of the Bariloche specimens, two or three strong epigastric spines are seen as well as transverse ridges in an arrangement identical to that recorded for material from Calafate. Cervical and branchiocardiac grooves are well developed both in *A. casadioi* and in the present specimens, and epibranchial regions are well marked. Moreover, several small spines along the anterolateral and lateral margins are visible in material from Calafate and Bariloche.

As pointed out by some authors (Benedict, 1902; Chace, 1942; Zariquiey Alvarez, 1968; Macpherson & de Saint Laurent, 1991; Macpherson, 1994, 1995; Schweitzer & Feldmann, 2000), extant and fossil species of *Munida* have some characters in common with species in other galatheid genera, e.g., epigastric spines or small spines along the anterolateral and lateral carapace margins. One feature in particular distinguishes them from all Recent and fossil genera known to date: the needle-like ro-

Fig. 1. *Munida casadioi* (Schweitzer & Feldmann, 2000), reconstruction based on material from the Bariloche area, Patagonia; 1 - carapace and abdomen; 2 - triangular sternal plastron; 3 - pereiopod I.

trum with one pair of short supra-orbital, needle-like spines. The presence of this character in some specimens from Bariloche favors their placement in *Munida*. Moreover, since these specimens share some morphological characters with material from Calafate, e.g., needle-like rostrum, epigastric spines, small spines along antero-lateral, and lateral carapace margins and arrangement of transverse ridges, we are of the opinion that *Austromunida* is a junior synonym of *Munida*. Further support for this statement comes from the fact that the Calafate and Bariloche assemblages are of coeval stratigraphic age (middle Eocene), despite their being far apart.

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